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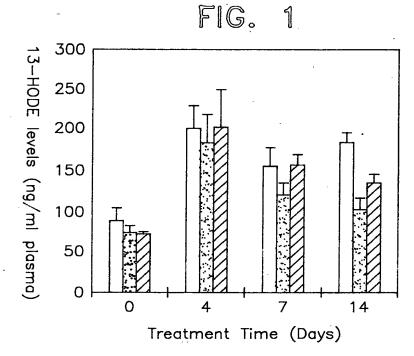


FIG. 1A

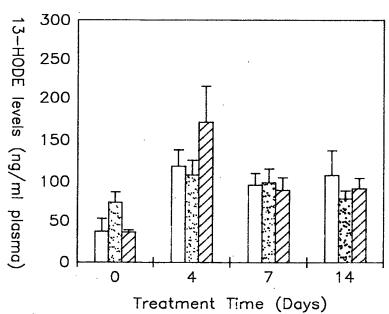
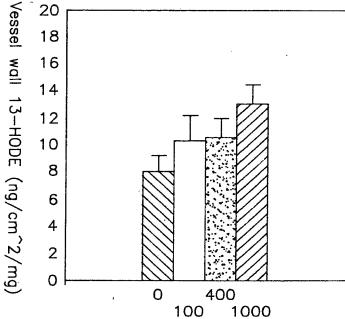
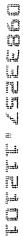


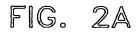


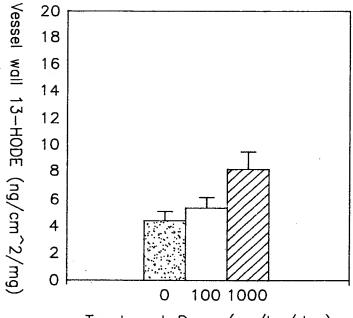
FIG. 20 18



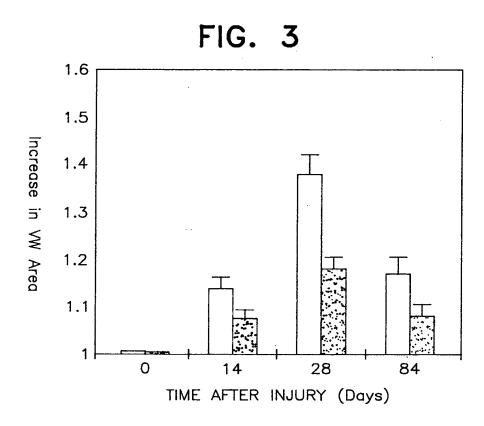
Treatment Dose (ug/kg/day)

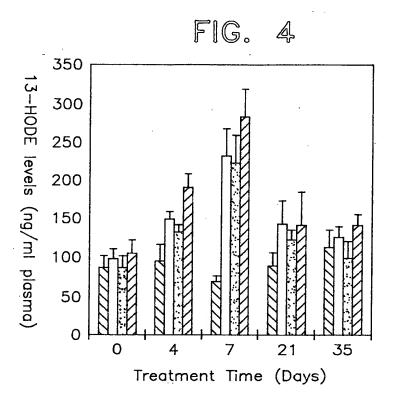


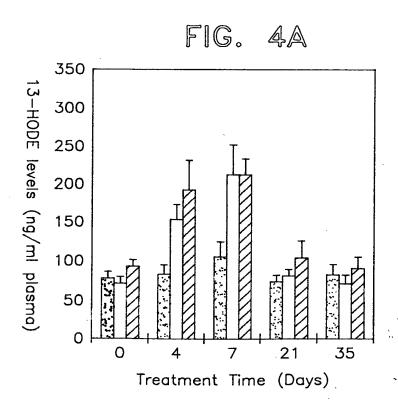




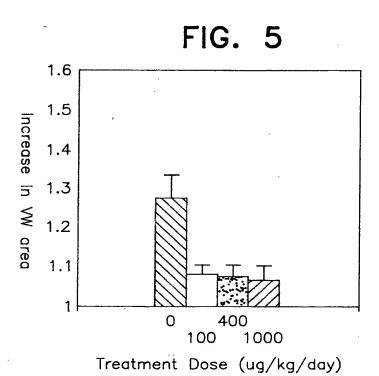
Treatment Dose (ug/kg/day)











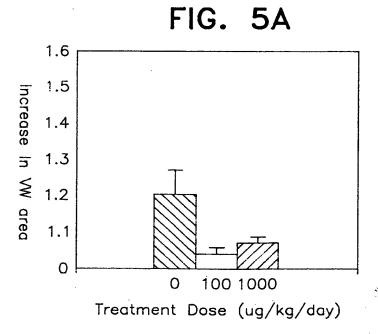
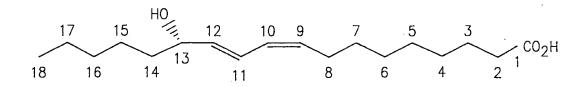


FIG. 6



Proton nmr spectrum (270MHz; CDCl 3)

 $\delta(\text{ppm}) \ 6.5(1\text{H}, \ \text{dd}, \ \text{H}_{11}\text{J}_{11,10} = 11\text{Hz}, \ \text{J}_{11,12} = 15.2\text{Hz}), \ 6.0(1\text{H}, \ \text{t}, \ \text{H}_{10}, \ \text{J}_{10,9} = \text{J}_{10,11} = 11\text{Hz}), \ 5.7(1\text{H}, \ \text{dd}, \ \text{H}_{12}, \text{J}_{12,11} = 15.2\text{Hz}, \ \text{J}_{12,13} = 6.8\text{Hz}), \ 5.4(1\text{H}, \ \text{dt}, \ \text{H}_{9}, \ \text{J}_{9,8} = 7.7\text{Hz}, \ \text{J}_{9,10} = 10.8\text{Hz}), \ 4.1(1\text{H}, \ \text{m}, \ \text{H}_{13}), \ 2.4(2\text{H}, \ \text{t}, \ \text{H}_{2}, \ \text{J}_{2,3} = 7.3\text{Hz}), \ 2.2(2\text{H}, \ \text{m}, \ \text{H}_{8}), \ 1.6(4\text{H}, \ \text{m}, \ \text{H}_{3}, \ \text{H}_{4}), \ 1.3(14\text{H}, \ \text{m}, \ \text{H}_{17}, \ \text{H}_{16}, \ \text{H}_{15}, \ \text{H}_{7}, \ \text{H}_{6}, \ \text{H}_{5}, \ \text{H}_{4}) \ \text{and} \ 0.9 \ (3\text{H}, \ \text{t}, \ \text{H}_{18}, \ \text{J}_{18,17} = 6.7\text{Hz}).$

Carbon-13 nmr spectrum (67.8MHz, CDCl₃)

 $\delta(\text{ppm})$ 179.3(C₁), 135.6(C₁₂), 132.6(C₉), 127.8(C₁₀), 125.8(C₁₁), 72.9(C₁₃), 37.1-22.4(C₁₇, C₁₆,C₁₅, C₁₄, C₈, C₇, C₆, C₅, C₄, C₃, C₂) and 13.9(C₁₈).

Infrared spectrum

 $3500-2500 \text{cm}^{-1}$ (broad O-H stretch) and 1709cm^{-1} (C=O stretch)

Ultraviolet spectrum (ethanolic solution)

 $\lambda \text{max} = 232 \text{nm} \ (\epsilon \equiv 25,000 \ \text{mol}^{-1} \text{dm}^{-3} \text{cm}^{-1})$

Soluble in ethanol, dichloromethane

Insoluble in hexane, water.